## **EXHIBIT E**

|     | Page 1   |
|-----|--|
| 1   | UNITED STATES DISTRICT COURT                     |
| 2   | SOUTHERN DISTRICT OF NEW YORK                    |
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|     | NEW YORK IMMIGRATION COALITION, ET AL.,          |
| 4   |  |
|     | Plaintiffs,                                      |
| ,5  | vs. Case No. 1:18-CF-05025-JMF                   |
| 6   | UNITED STATES DEPARTMENT OF COMMERCE, ET AL.,    |
| 7   | Defendants.                                      |
|     |  |
| 8   |  |
| 9   | Washington, D.C.                                 |
| 10  | Wednesday, August 29, 2018                       |
| 11  | Deposition of:                                   |
| 12  | DR. JOHN ABOWD                                   |
| 13  | called for oral examination by counsel for       |
| 14  | Plaintiffs, pursuant to notice, at the office of |
| 15  | Arnold & Porter, 601 Massachusetts Avenue NW,    |
| 16  | Washington, D.C., before KAREN LYNN JORGENSON,   |
| 17  | RPR, CSR, CCR of Capital Reporting Company,      |
| 1,8 | beginning at 9:06 a.m., when were present on     |
| 19  | behalf of the respective parties:                |
| 20  | Veritext Legal Solutions                         |
|     | Mid-Atlantic Region                              |
|     | 1250 Eye Street NW - Suite 350                   |
| 21  | Washington, D.C. 20005                           |
| 22  |  |

## PROCEEDINGS

WHEREUPON,

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VIDEOGRAPHER: Good morning. We're going on the record at 9:06 a.m. on Wednesday August 29, 2018. Please note that the microphones are sensitive and may pick up whispering and private conversations. Please turn off all cell phones and place them away from the microphones, as they can interfere with the deposition audio. Audio and video recording will continue to take place unless all parties agree to go off the record.

This is Media Unit 1 of the video recorded deposition of Dr. John Abowd taken by counsel for the plaintiff in the matter of the New York Immigration Coalition, et al., v. United States Department of Commerce, et al. This case is filed in the U.S. District Court of the Southern District of New York. This deposition is being held at the law offices of Arnold & Porter located at 601 Massachusetts Avenue Northwest, Washington, D.C. 20001.

Page 9 My name is Dan Reidy from the firm 1 Veritext Legal Solutions, and I'm the 2 videographer. The court reporter is 3 Karen Jorgenson from the firm Veritext Legal 4 Solutions. 5 I am not authorized to administer an 6 7 oath. I am not related to any party in this 8 action, nor am I financially interested in the 9 outcome. Also, counsels' appearances will be noted 10 on the stenographic record rather than orally at 11 12 this time. 13 Will the court reporter please swear in the witness? 14 DR. JOHN ABOWD, 15 called as a witness, and having been first duly 16 sworn, was examined and testified as follows: 17 THE WITNESS: I do. 18 EXAMINATION BY MR. HO: 19 Dr. Abowd, before we get started, I just 20 21 want to confirm something on the record with your 2.2 counsel.

form. I am certain that the questions for the American Community Survey and the 2010 census were put through the full battery of the tests.

If you would like, during the break, I will call and ask for cognitive testing of the censuses prior to the 2010.

Q Well, so just stick with the 2010. The full short form census enumeration questionnaire was cognitively tested before being deployed for the actual 2010 census, correct?

A That is my understanding. But it may have been question by question. I will -- I will actually, during a break, ask a more specific question about the form of the testing.

Q Dr. Abowd, has there been any field testing of the citizenship question that's going to be used on the 2020 census without a prefatory question about nativity?

A No.

Q And there's been no field testing of the full 2020 census questionnaire, including the citizenship question, correct?

- A That's correct.
- Q And before the 2010 census, as far as you know, there was field testing of the full short form census questionnaire, right?
  - A Yes.

- Q At present, there are no plans for field testing of the full 2020 census questionnaire, including the citizenship question; is that right?
  - A That's correct.
  - Q Why not?

A In May of 2016 the -- Enrique Lamas, the associate director for demographic programs, who is performing the nonexclusive functions and duties of the deputy director -- and I'm going to call him the acting deputy director from now on -- the acting deputy director asked Victoria Velkoff, the chief of the American Community Survey Office, to design a field experiment for the census questions in the exact ACS form and without a lead-in nativity question using the experimental components of the American Community Survey, which allow us to deploy test instruments without

disrupting the production instrument, but with a proper experimental design.

Tori drafted such an experiment. It included multiple forms of the citizenship question; the one that is in the ACS, the shorter one that's in the Current Population Survey, and no citizenship question, at all. Designed a randomized controlled trial of those questions, controlled to produce sampling errors of either a half of a percent or one percentage point and presented the plan to the acting deputy director and its budget.

The acting deputy director and
Ron Jarmin, the deputy director performing the
nonexclusive functions and duties of the director,
and I'm going to call him the acting director from
now on. The acting director and Enrique decided
that the experiment which could not be deployed
until the earliest, November of 2019, and possibly
not until the following February, I believe, was
not going to produce sufficient information to be
worth deploying. In their opinion, and in the

Page 29 opinion of the Census Bureau professionals, the 1 citizenship question, even without a nativity 2 lead-in, has been adequately tested. 3 I believe you said that it was in May of 4 2016 --5 I said -- I may have said '19, but I 6 It was after the meant May of 2018. 7 Secretary -- sorry. Thank you for correcting me. 8 It was after the Secretary instructed us to add the question. It was in May of this year. 10 11 Thank you for clarifying. Dr. Abowd, what is the Center For Survey 12 Measurement within the Census Bureau? 13 The Center For Survey Measurement is a 14 Α group of, primarily, behavioral scientists and 15 survey methodologists led by Paul Beatty who is 16 the chief. 17 And what does -- I'll call it CSM for 18 short -- what does CSM do? 19 CSM does a variety of questionnaire 20 21 testing and qualitative research, leading content recognition questionnaire layout, ISR -- Internet 2.2

that block-level CVAP data will be larger or smaller than the error margins associated with the block-level CVAP data that DOJ currently uses, based on ACS estimates?

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A I have to give a nuanced answer to that question. We don't know, because we haven't set the parameters of the disclosure avoidance system yet. That's somewhat new territory for my colleagues, and I am certain that one of the things we will be discussing is whether the error margins associated with both the P.L. 94 and the CVAP table at the block level still allow redistricting offices and the Department of Justice to use the data effectively. That is the use case for those data.

Q Would you agree -- never mind. That's fine.

You testified a little bit about a possible RCT of the citizenship question and request from, I believe it was Enrique Lamas, to get a proposal for doing an RCT of the citizenship question without the prefatory nativity question

Page 102 that's been used in past questionnaires. 1 Did I get that right? 2 Everything you just said is what I said, 3 Α I think, yes. 4 Okay. And that was in March of 2018? 5 0 6 Α May. May of 2018. 7 0 And are there documents to reflect the 8 9 request from Mr. Lamas to conduct an RCT of the citizenship question without a prefatory question 10 11 without nativity? First of all, he didn't request an RCT. 12 13 He requested a proposal for an RCT. Thank you. 14 Q And I have seen Victoria Velkoff's 15 Α 16 response to that request. So there are artifacts, 17 yes. Was that request, or Ms. Velkoff's 18 0 19 response, were those in emails? I do not know how the correspondence 20 between Enrique and Tori Velkoff was conducted. 21 2.2 But there is a document that is the proposal of

American Community -- ACS office produced, and that was transmitted to me by email.

- Q And when you say there was a document produced, was that like a memorandum attached to an email or was it in the text of an email?
- A It was a separate document, short summary of the proposal. I think it was all of the proposal, but it was short.
- Q As set forth in that proposal, how long would the RCT have taken?
- A I did read it very recently, but I did not memorize it. The way it works in the experimental components of the American Community Survey is you designate certain months in the field for data collection. And then the American Community Survey data are processed in a flow, but we don't release the official products until the flow of an entire year has been processed, but we would have been able to evaluate an experiment as soon as the months that were in the experiment were evaluated.

She gave two separate start dates for the

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Page 104 experiment. One was November and one was early in 2019. But I don't remember her saying how many months it had to run to achieve the standard errors that -- that it was designed to produce, so that's -- it may not have been in there. Do you know how expensive either of those proposals to conduct an RCT of the citizenship question would have been? Would you remember to re-ask that question after the next break? I would rather give you exactly the right answer than the two numbers I remember, and I think I have transposed digits in one of them, so I'm just going to go look. I appreciate that. And if it's not me, 0 then it might be somebody else. Right. As long as someone knows to Α re-ask, I know my counsel will remind me to check. Q Was that RCT proposal discussed with anyone outside of the Census Bureau?

the acting deputy director, he took

When I discussed that RCT proposal with

responsibility, in conjunction with the acting director, for giving me the no-go, but he didn't tell me whether he discussed with anyone else outside the Bureau.

- Q So you're aware that Dr. Jarmin and -- I don't know if it's Dr. or Mr. Lamas?
  - A It's doctor. It's Dr. Velkoff, too.
- Q Okay. You don't know if anyone other than Dr. Jarmin and Dr. Lamas were involved in this -- the decision not to do the RCT of the citizenship question?
  - A I do not know.

Q You testified at one point whether or not -- excuse me -- you testified at one point that there are indicators in that -- let me try again.

I think you testified earlier that there are indicators suggesting that nonresponse rates to a citizenship question among noncitizens are increasing; is that right?

- A Yes.
- Q What are those indicators that you were

Page 137 my rank, but some will send a specialist. 1 then the director conveys to the Department of 2 Commerce a set of recommendations to fill a 3 vacancy. It's the Department of Commerce then 4 decides to whom to extend that invitation. 5 Is it fair to say that, generally 6 speaking, CSAC members are highly regarded as 7 8 social scientists by the Census Bureau? Α 9 Yes. You're familiar with former Census Bureau 10 director John Thompson? 11 I have met Dr. Thompson. Mr. Thompson, 12 13 excuse me. Fair to say that the Census Bureau has a 14 0 high opinion of Dr. Thompson as a scientist? 15 It is Mr., and yes. 16 Fair to say the Census Bureau considers 17 him well versed in standard Census Bureau testing 18 19 practices? 20 Α Yes. 21 Has the Census Bureau contracted with any private companies or PR firms to conduct research 2.2

on public attitudes with respect to answering a citizenship question?

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A The Census Bureau has awarded the integrated communication contract for the 2020 census. Under task orders associated with that contract, the CBAMS -- I expanded the acronym earlier -- the CBAMS surveys and the CBAMS focus groups were conducted. They were conducted by the contractor, who I believe satisfies the definition of an external expert on collecting survey opinion.

And after the Secretary instructed us to put the citizenship question on the 2020 census, the focus group protocol was modified to begin collecting information on it, but it was not time to modify the survey protocol.

- O Who is that external contractor?
- 18 A So the lead contractor is
  19 Young & Rubicon.
  - Q Has the Census Bureau contracted with a company named Reingold to conduct research on public attitudes with respect to answering a

Page 139 citizenship question? 1 Reingold spelled R-E-I-N-G-O-L-D. 2 I do not know whether Reingold is a subcontractor in the integrated communication 4 If they are, then the answer could be 5 contract. I'm not aware of another contract, but I 6 will check during a break. 7 Does the Census Bureau think that 0 Okay. adding a citizenship question to the 2020 9 enumeration questionnaire is a good idea? 10 Α 11 No. 12 MR. HO: Can we go off the record for a 13 second? VIDEOGRAPHER: We're going off the 14 15 record. The time on the video is 12:07 p.m. (Off the record.) 16 VIDEOGRAPHER: This begins Media Unit 17 Number 3. The time on the video is 1:03 p.m. 18 Wе are on the record. 19 20 BY MR. HO: 21 Dr. Abowd, I don't have any other 22 questions for you at this time, but I know you

Page 140 said you were going to check on a few things at 1 2 lunch, and I just wondered if there was anything in particular that you wanted to offer any detail 3 about that you were unable to -- for which you 4 were unable to do earlier? 5 First of all, let's go to the 6 Α easiest one. Reingold is a contractor for the 7 Census Bureau. Okay. What are they a contractor for? 9 They're in -- they have one of the 10 decennial communications contracts. I have 11 requested a summary of the task orders. I haven't 12 13 received it yet. Do you know what work they've performed 14 for the Census Bureau? 15 That's why I asked for a summary of the 16 17 task orders. I do not. Do you know if there are any documents 18 Q reflecting the work that Reingold has done for the 19 20 Census Bureau? 21 I didn't ask that. I will at the next

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break.

Q Any other issues you'd like to clarify?

A In the ACT -- I'm sorry -- ACS RCT, the design was to last for six weeks of data collection, so the one that would -- had it started in November, those data would have been collected by mid-January. There were two designs. They both involved a control group, which in these experiments just means the ACS says it is being run, so we don't have a separate control group.

A questionnaire that just had the

American Community Survey citizenship question,

just the citizenship question, and a group -- a

treatment group that just had the CPS version, yes

or no. It wasn't the exact CPS version but a

two-choice version. And then --

(Thereupon, the court reporter clarified.)

THE WITNESS: A treatment group that had no citizenship question.

To achieve the high level of accuracy would have been \$4 million. To achieve the lower level of accuracy would have been 2 million, same

1 | field period.

BY MR. HO:

Q Thank you. And this would have been the only testing of the 2020 decennial questionnaire with a citizenship question in it, correct?

A This is the only field testing with and without citizenship question, directly analyzing the citizenship question that we have considered at the Census Bureau.

I also verified that the 2010 census questionnaire had full cognitive and field testing. That the 2020 questionnaire without the citizenship question had -- so I asked him the same way you asked me, was adequately, cognitively tested; yes.

Q I'm sorry. Who did you ask whether or not?

A I asked my staff -- the same group that I had been asking generally about the testing, I specifically asked about the cognitive testing for the 2020 questionnaire, with and without the citizenship question, and their answer was that it

was adequately tested with the citizen- -- without the citizenship question, but not adequately tested with the citizenship question, cognitive testing.

- Q Thank you.
- A Okay.

And, thirdly, in this table, Exhibit 12, the third panel, the CAPI response rate, I confirmed, so I can now say the way the tract was put into deciles was based on the five-year American Community Survey for the middle five years of the table, so 2011 through 2015. That the CAPI response rate is just the CAPI response rate in the nonresponse follow-up system, okay.

I think those were all the things we had unresolved. If you think there were others -- we went over our notes, but I think I've answered the questions that that were unresolved.

MR. HO: I don't have any others right now, so I'm going to pass you along to one of the other lawyers for one of the other plaintiff groups, subject, of course, to the issue that I've

MAFIDs. Then the -- the primary instrument was an Internet self-response instrument run off the same computer system with the American Community Survey and many of the economic surveys are run off of.

If the -- if the contact, which is by mail, comes back determining that there's nobody living there, so they're removed from the scope of the sample, and then we calculate the percentage of households that we get a response from. So about 17 percent -- about 17,000 of the 50,000 households responded. In the way we calculate response rates, that's about a 38 percent response rate.

Q And I'm going to hand you what's going to be marked as Exhibit 18.

(Plaintiffs' Exhibit 18, 2020 CBAMS survey, was marked.)

18 BY MR. ADAMS:

Q And I will represent that this is a document downloaded from the Census Bureau's website and identified as the 2020 CBAMS survey. Do you recognize the document as being the 2020

CBAMS survey?

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A So I've only ever seen the code book, not the instrument. But I recognize questions, so I think this is the right questionnaire.

Q And how -- how are these questions selected for inclusion in the survey?

We conducted a much more limited CBAMS in That, I believe, was the first time we attempted to get pre-census information on factors that might affect the costs of carrying out the census, the effectiveness of the census. There is a -- there is a research staff led by one of the -- by a senior survey methodologist, Nancy Bates, and with other senior mathematical statisticians and with other senior survey measurement experts, some in the Center For Survey Measurement and some in the decennial census statistical divisions, and some in the other parts of the Census Bureau. They put this instrument and the survey through our lifecycle survey development program.

They had constructs that they were trying

Page 269

to capture. Some of which they believed to be well captured by questions that had been used in older CBAMS. Some of which come from questions that are used by other survey organizations to measure general attitudes. There are a large number of those and our survey measurement experts are very familiar with them.

So -- so they would have had a set of candidate questions -- they have, generally speaking, a known budget or approximate budget, and experience in planning how much of that budget has to be allocated to instrument development, instrument testing. So if it's an Internet self-response, so there's no field operations for the data collection operation. There was no nonresponse follow-ups, so that phase isn't there. And then, post -- post-response processing and data editing tabulation. So they would have had a tentative plan for allocating their budget across the steps and then put the questionnaire through cognitive testing, the questions, unless the question has been previously cognitively tested,

and then laboratory testing of the whole form.

And then I believe they used a small experimental sample. Our -- I'm not sure they used an experimental sample. They might have all been done with laboratory samples, so those are people that were recruited into our labs to take whole instruments as opposed to single questions or focus groups. The Center For Survey

Measurement has laboratory facilities that can simulate the survey environment or simulate questions or conduct a focus group. They would have used a combination of those tools to get the instrument in place.

One of the statisticians on the team would have drawn the address sample from the MAF. The addresses would have been prepared, mail-out materials inviting you to participate would have been prepared, and then the effort staged during a fixed field operation.

The survey was conducted in collaboration with -- in collaboration of Y&R, Young & Rubicon, the lead contractor in the integrated

communication contract, and Y&R and other subcontractors in that contract also participated in the development and some of their resources were used, as well.

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Q Will the result of the 2020 CBAMS be used only for the purposes of the 2020 census?

Well, I'm sure the answer to that question is no, because our data can be used regularly. They were collected primarily in support of the 2020 census. That's a funding So we couldn't have run a survey like this intending to use it primarily for the SIPP and charged it to 2020. So its principal reason for being conducted was in support of the 2020 census. But it produced useful data. We are still using the data for the one we conducted in 2008 in So it's a reasonable support of the 2010 census. presumption that the data will be used for other purposes, but their primary purpose is in support of the 2020 census.

Q I believe you testified earlier that when you were trying to draft the protocol for adding a

Page 288

operation under a budget from the decennial. We don't get a separate -- we have lots of enumerators who haven't worked for us except for the census, but their -- that whole process is run through the field directorate.

Q How are the results from the CBAMS currently being used? Are the results currently being used to modify protocols, to design messaging campaigns or other -- in other ways?

A The results are currently in the hands of a small team from Young & Rubicon and the Census Bureau, being coordinated within the Census Bureau by Nancy Bates, and Gina Walejko on the technical side. They were the core of the team that did this successfully. By this, I mean focused the advertising and focused the field effort on quantitatively-identifiable low response areas that -- Nancy, in particular, is something of a pioneer in this area. So she is using her expertise. Gina is using her expertise. The Y&R team is using their expertise, which comes from a different domain, and the field staff is using

their expertise to try to learn what we can from these data, in addition to the other tools that we've already produced, like the -- the low response indicators in the planning database. So all of those tools will get used.

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Some of those tools have been actively incorporated into the operational control systems optimizer so that it can use them as a part of its scheduling algorithm. The field supervisors and the managers will get briefed, but the primary use, right now, is to ramp up the communication campaign.

Q And just to confirm, the final report will be publicly available, you anticipate, in November or December?

A I'm guessing it's still going to be labelled an interim report, but it will be the first public report from the CBAMS.

MR. ADAMS: Let's go off the record.

VIDEOGRAPHER: We're going off the record. The time on the video is 4:53 p.m.

(Off the record.)

Page 317 of that recruitment plan. 1 But it's fair to say that the low levels 2 of unemployment right now will make it more 3 difficult to hire enumerators? 4 MR. EHRLICH: Objection. Form. 5 THE WITNESS: It's fair to say it will make it more expensive to hire enumerators. And 7 if that's not acknowledged, then it will make it 8 more difficult to hire enumerators. BY MS. GOLDSTEIN: 10 So, previously, you testified about the 11 work that Young & Rubicon was retained to do, 12 13 correct? So I testified about the work of the 14 integrated communication contract for which Y&R is 15 the lead contractor. 16 Have they done attitudinal studies on the 17 citizenship question as part of that contract? 18 I do not know whether they have done 19 Α I do know that they are being actively 2.0 21 discussed. And has Reingold performed attitudinal 22

studies on the citizenship question?

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So, as I said earlier, I would learn what Reingold -- so Reingold is a partner in the integrated communication contract, one of the Reingold has been involved in the subcontractors. task orders associated with the integrated communication contract to date. Reingold did participate in the CBAMS task order. I asked whether the task orders were public, and the task orders are not public. So they either have to be FOIA'd or if they're discovered, they have to be redacted to remove confidential information from I think that that's what I promised to get them. in terms of an answer about Reingold.

Q But do you know if they have performed attitudinal studies as part of this?

A So I do not know whether Reingold was the specific subcontractor or on the subcontractor team to do them. That would be in the task order -- the task order would say this has to be done, and then Y&R would assemble the team that did it. So I might not necessarily know, but the

Page 319 financial officer paying the bills would know 1 whether contractors --2 The Census Bureau's answer to that 3 question is they have actively participated in the 4 task orders to date and -- and that included the 5 CBAMS, which did have attitudinal -- I think 6 you're not talking about those attitude studies. 7 There are other attitudinal studies 8 pursuant to that contract, correct? 9 There is discussion of other attitudinal 10 Α work broadly interpreted, but we're not done 11 collecting data - --12 13 0 Right. -- about things that might make it easier 14 or more difficult to conduct the census. 15 So are -- there are no results yet to be 16 0 analyzed from those studies? 17 As far as I know, yes. The agency's Α 18 answer is there are no --19 (Thereupon, the court reporter 20 clarified.) 21 THE WITNESS: There are not yet any data 22

Page 331 are on the record. 1 2 BY MS. GOLDSTEIN: Dr. Abowd, I think I have just one more 3 4 question. If you will turn to the last page of the 5 exhibit in front of you Bates marked 1320. 6 7 Α Okay. 8 Q In light of the Census Bureau's analysis of Alternative C versus Alternative D, do you agree that reinstatement of a citizenship 10 question on the 2020 decennial census is necessary 11 to provide complete and accurate data in response 12 to the DOJ request? 13 Α No. 14 And that is the position of the 15 16 Census Bureau, correct? 17 Α Yes. MS. GOLDSTEIN: 18 Thank you, Dr. Abowd. 19 Q 20 I just want the record to reflect and 21 that plaintiffs -- and I speak to all plaintiffs 22 with respect to this -- are leaving the record

Page 332 open, because, among other reasons, the documents 1 that were produced last evening that we have not 2 had time to review that are relevant to this 3 deposition, both with respect to the underlying 4 documents, as well as to how the documents relate 5 to many of the topics listed in the 30(b)(6) 6 deposition notice, as well as documents that were 7 8 identified this afternoon that have not yet, to 9 our knowledge, been produced. These include the 1.0 Reingold documents, documents relating to the Y&R 11 contract, the CBAMS microdata file that was given to Y&R, and the July extended white paper and 12 possible other documents that we will confer with 13 counsel on. 14 MR. EHRLICH: I think Dr. Abowd said the 15 16 July white paper was the same as the August white 17 paper we sent you. 18 MS. GOLDSTEIN: There were some small modifications. So to the extent there is another 19 version of that white paper that should be 20 21 produced to us, okay? 22 MR. EHRLICH: We can talk about that.

Q And is there a place -- a place where you could find the expected enumeration from the administrative records?

A That's a component of the lifecycle cost estimates.

Q And why was it that the RCTs that we've discussed previously were not put into the field?

A Acting Deputy Director Lamas,

Acting Director Jarmin, and Under Secretary Kelley conferenced about that proposal and determined that the 42 million households that had already asked -- had already answered the existing citizenship question constituted adequate testing and that we would use that question.

MR. EHRLICH: I have nothing else.

FURTHER EXAMINATION BY MS. GOLDSTEIN:

Q One follow-up question on that, Dr. Abowd. Sorry.

Was the Census Bureau team of experts consulted on Director Jarmin, Under Secretary Kelley and Dr. Lamas's decision not to put those RCTs into the field?

Page 335 Tori Velkoff, although she's not an 1 author of the paper that you got, was a member of 2 3 the SWAT team. She had staff supported. So in these situations, the senior 4 leadership of the Census Bureau consults with the 5 internal experts they believe are most salient. 6 mean, Tori preferred the cost estimate, so that 7 was -- that's who got consulted. 8 So Ms. Velkoff got consulted? 9 Q 10 Α Yes. 11 Q Thank you. And were you -- were you consulted? 12 13 Α No. Thank you. 14 Q VIDEOGRAPHER: This concludes today's 15 16 video deposition. The time on the video is 6:14 p.m. We are off the record. 17 (Whereupon, at 6:14 p.m., the deposition 18 of Dr. John Abowd was concluded.) 19 20 21 2.2

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## CERTIFICATE OF REPORTER

I, KAREN LYNN JORGENSON, RPR, CSR, CCR the officer before whom the foregoing deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotype and thereafter reduced to typewriting under my direction; that the said deposition is a true record of the testimony given by said witness; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this deposition was taken; and further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise interested in the outcome Karen Syen Jorgenson of this action.

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KAREN LYNN JORGENSON, RPR, CCR, CSR

21 Dated this 1st day

22 of September , 2018.

Page 337 ACKNOWLEDGEMENT OF DEPONENT 1 I, DR. JOHN ABOWD, do hereby acknowledge I 2 have read and examined the foregoing pages of 3 testimony, and the same is a true, correct and 4 complete transcription of the testimony given by 5 me, and any changes or corrections, if any, appear 6 in the attached errata sheet signed by me. 7 8 9 10 11 12 13 14 Date DR. JOHN ABOWD 15 Stephen Ehrlich, Esquire 16 U.S. DEPARTMENT OF JUSTICE 20 Massachusetts Avenue 17 Washington, D.C. 20530 New York Immigration Coalition, et al., v. 18 United States Department of Commerce, et al. 19 20 21 22

Page 338 Dear Mr. Ehrlich: 1 Enclosed please find your copy of the 2 deposition of DR. JOHN ABOWD, along with the 3 original signature page. As agreed, you will be 4 5 responsible for contacting the witness regarding signature. 6 7 Within 21 days of receipt of transcript, please forward errata sheet and original signed 8 signature page to counsel for, John Freedman and 9 10 all counsel of record. If you have any questions, please do not 11 12 hesitate to call. Thank you. Karen Jyen Joyenson 13 Yours, 14 Karen Lynn Jorgenson, RPR, CCR, CSR Capital Reporting Company 15 1821 Jefferson Place, Northwest 3rd Floor 16 Washington, D.C. 20006 (202) 857-3376 17 cc: All counsel of record 18 19 20 2.1 22

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|--|------------------------------|--------|--------------|--------|--|--|
|  | ERRAT                        | 'A S H | E E T        |        |  |  |
| Case Name: New York Immigration Coalition, et    |                              |        |              |        |  |  |
| al., v. United States Department of Commerce, et |                              |        |              |        |  |  |
| al.,   |                              |        |              |        |  |  |
| Witness Na                                       | Witness Name: DR. JOHN ABOWD |        |              |        |  |  |
| Deposition Date: Wednesday, August 29, 2018      |                              |        |              |        |  |  |
| Page No.   | Line No.                     | Chang  | e/Reason for | Change |  |  |
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